#### IN THE CLAIMS

Please amend the claims as follows:

(Currently amended) A method of manufacturing a composite material comprising:

forming a mixture comprising a plurality of carbon fibers and a borazine oligomer;

subjecting the mixture to a first heating, for 12 hours to 56 hours; and subjecting the mixture to a second heating;

wherein the temperature of the first heating is 60 °C to 80 °C, and the pressure during the first heating is at least 0.5-MPa  $\underline{1}$   $\underline{MPa}$ ,  $\underline{and}$ 

the temperature of the second heating is at most 400 °C, and the greatest pressure of the second heating is at least 15 MPa $_{-}$ and

the composite material comprises carbon fibers in a boron nitride matrix, and the composite material has a density of at least 1.62 g/cs.

- (Original) The method of claim 1, further comprising subjecting the mixture to a third heating, wherein the temperature of the third heating is at least 1200 °C.
- (Original) The method of claim 1, wherein the borazine oligomer is obtained by heating borazine for 24 to 48 hours, at a temperature of 60 °C to 80 °C.
  - 4. (Cancelled)
- (Original) The method of claim 1, wherein the pressure during the first heating is 1 MPa to 6 MPa.
- 6. (Original) The method of claim 1, wherein the temperature of the first heating is 65  $^{\circ}$ C to 75  $^{\circ}$ C, and the pressure during the first heating is 1.5 MPa to 5 MPa.
- 7. (Original) The method of claim 1, wherein the temperature of the first heating is 68  $^{\circ}$ C to 72  $^{\circ}$ C, and the pressure during the first heating is 2.0 MPa to 4.6 MPa.

- 8. (Original) The method of claim 1, wherein the temperature of the second heating is increased at a rate of 0.25 °C/min to 3 °C/min.
- 9. (Original) The method of claim 1, wherein the temperature of the second heating is increased at a rate of 0.75 °C/min to 1.25 °C/min.
- 10. (Original) The method of claim 1, wherein the temperature of the second heating is increased at a rate of 0.9 °C/min to 1.1 °C/min.

### 11-17. (Cancelled)

- 18. (Previously presented) The method of claim 1, wherein the composite material has a density of 1.62 to 1.75 d/cc.
- 19. (Previously presented) The method of claim 1, wherein the composite material has a wear rate of at most 0.4 mg/m at an energy level of 100 kJ/kg to 1100 kJ/kg, and a coefficient of friction of at least 0.22 at an energy level of 100 kJ/kg to 1200 kJ/kg.
- (Currently amended) A method of manufacturing a composite material comprising boron nitride, comprising:

forming a mixture comprising a preform and a borazine oligomer; subjecting the mixture to a first heating, for 12 hours to 56 hours; and

subjecting the mixture to a second heating;

wherein the temperature of the first heating is 60 °C to 80 °C, and the pressure of the first heating is at least 0.5-MPa 1 MPa,

the temperature of the second heating is at most 400 °C, and the greatest pressure of the second heating is at least 15 MPa, and

the preform is a 3D needled carbon fiber perform, and

the composite material comprises a 3D needled carbon fiber preform impregnated with boron nitride having a density of at least 1.63 g/cc.

- (Original) The method of claim 20, further comprising subjecting the mixture to a third heating, wherein the temperature of the third heating is at least 1200 °C.
- 22. (Original) The method of claim 20, wherein the borazine oligomer is obtained by heating borazine for 24 to 48 hours, at a temperature of 60 °C to 80 °C.

### 23. (Cancelled)

24. (Currently amended) A method of manufacturing a composite material comprising boron nitride, comprising:

forming a mixture comprising a preform and a borazine oligomer; subjecting the mixture to a first heating, for 12 hours to 56 hours; and

subjecting the mixture to a second heating;

wherein the temperature of the first heating is 60 °C to 80 °C, and the pressure of the first heating is at least 0.5-MPa 1 MPa,

the temperature of the second heating is at most 400 °C, and the greatest pressure of the second heating is at least 15 MPa, and

the preform is a CVI-infiltrated 3D needled carbon fiber perform, and the composite material comprises a CVI-infiltrated carbon fiber preform impregnated with boron nitride having a density of at least 1.62 a/cc.

# 25-27. (Cancelled)

 (Previously presented) The method of claim 20, wherein the composite material has a density of 1.63 g/cc to 1.72 g/cc.

#### 29. (Cancelled)

- (Previously presented) The method of claim 24, wherein the composite material has a density of 1.62 to 1.80 g/cc.
- (Previously presented) The method of claim 20, wherein the composite material comprises a 3D needled carbon fiber preform impregnated with boron nitride

having a wear rate of at most 0.05 mg/m at an energy level of 100 kJ/kg to 1000 kJ/kg, and a coefficient of friction of at least 0.12 at an energy level of 100 kJ/kg to 900 kJ/kg.

# 32-37. (Cancelled)

- (Previously presented) The method of claim 24, further comprising subjecting the mixture to a third heating, wherein the temperature of the third heating is at least 1200 °C.
- 39. (Previously presented) The method of claim 24, wherein the borazine oligomer is obtained by heating borazine for 24 to 48 hours, at a temperature of 60  $^{\circ}$ C to 80  $^{\circ}$ C.
- 40. (Previously presented) The method of claim 2, further comprising subjecting the mixture to a fourth heating, wherein the temperature of the fourth heating is at least 1200 °C.
- 41. (Previously presented) The method of claim 21, further comprising subjecting the mixture to a fourth heating, wherein the temperature of the fourth heating is at least 1200 °C.
- 42. (Previously presented) The method of claim 38, further comprising subjecting the mixture to a fourth heating, wherein the temperature of the fourth heating is at least 1200 °C.